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*Admitted only in Maryland
*Admitted only in Virginia
*Practice Limited to
Federal Agencies

December 30, 2003

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Art Unit 1648

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Re: U.S. Utility Patent Application
Application No. 10/670,797; Filed: September 26, 2003
For: **Monoacylated Betulin and Dihydrobetulin Derivatives, Preparation
Thereof and Use Thereof**
Inventors: ALLAWAY *et al.*
Our Ref: 1900.0400001/JMC/SMW

Sir:

Transmitted herewith for appropriate action are the following documents:

1. Information Disclosure Statement;
2. Form PTO-1449 (5 sheets) listing 22 documents (AA1, AB1, AL1-AP1, AR1-AT1, AL2, AR2-AT2, AR3-AT3, AR4-AT4, AR5 and AS5);
3. A copy of 20 cited documents (AL1-AP1, AR1-AT1, AL2, AR2-AT2, AR3-AT3, AR4-AT4, AR5 and AS5); and
4. One (1) return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Commissioner for Patents
December 30, 2003
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The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.


John M. Covert
Attorney for Applicants
Registration No. 38,759

JMC/SMW;kim
Enclosures

SKGF_DC1;214295.1



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Allaway *et al.*

Appl. No.: 10/670,797

Filed: September 26, 2003

For: **Monoacylated Betulin and
Dihydrobetulin Derivatives, Preparation
Thereof and Use Thereof**

Confirmation No.: 7896

Art Unit: 1648

Examiner: *To be assigned*

Atty. Docket: 1900.0400001/JMC/SMW

Information Disclosure Statement

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. A copy of Documents AA1 and AB1 is not provided in accordance with the U.S. Patent and Trademark Office pre-OG notice of July 11, 2003, which states "[t]he Office hereby waives the requirement under 37 C.F.R. 1.98(a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. patent application for all U.S. national patent applications filed after June 30, 2003." A copy of all other documents is provided.

In accordance with 37 C.F.R. § 1.98(a)(3), Applicants' undersigned representative submits the following concise explanation of the relevance of the non-English language document, Document AS4, cited on Form PTO-1449:

Document AS4, Pokrovskii, A.G., et al., "Synthesis of Derivatives of Plant Triterpenes and Study of Their Antiviral and Immunostimulating Activity," Khimiya v Interesakh Ustoichivogo Razvitiya 9:485-491 (2001), is in the Russian language. The

relevance of Document AS4 can be ascertained by reference to an unverified English language abstract attached as Document AS5.

After a diligent effort, the month of publication could not be determined for Document AS4. For all other documents, where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO 1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

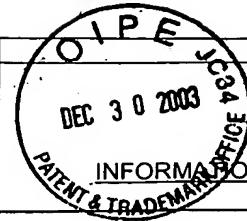
Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.


John M. Covert
Attorney for Applicants
Registration No. 38,759

Date: Dec. 30, 2003

1100 New York Avenue, N.W.
Washington, D.C. 20005-3934
(202) 371-2600



FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1900.0400001/JMC/SMWAPPLICATION NO.
10/670,797

FIRST NAMED INVENTOR

Allaway et al.

FILING DATE

September 26, 2003

ART UNIT
1648**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AA1	5,679,828	10/21/1997	Lee et al.			06/05/1995
AB1	6,172,110 B1	01/09/2001	Lee et al.			03/02/1999
AC						
AD						
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FOREIGN PATENT DOCUMENTS

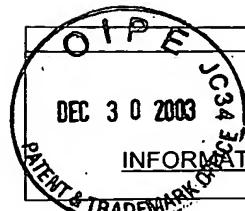
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AL1	WO 96/39033 A1	12/12/1996	WIPO			Yes No
AM1	WO 00/59492 A2	10/12/2000	WIPO			Yes No
AN1	WO 01/59457 A2	08/16/2001	WIPO			Yes No
AO1	WO 02/26761 A1	04/04/2002	WIPO			Yes No
AP1	WO 02/26762 A1	04/04/2002	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	1	Fujioka, T., and Kashiwada, Y., "Anti-AIDS Agents. 11. Betulinic Acid and Platanic Acid as Anti-HIV Principles from <i>Syzygium claviflorum</i> , and the Anti-HIV Activity of Structurally Related Triterpenoids," <i>J. Nat. Prod.</i> 57:243-247, American Chemical Society and American Society of Pharmacognosy (1994)
AS	1	Hashimoto, F., et al., "Anti-AIDS Agents-XXVII. Synthesis and Anti-HIV Activity of Betulinic Acid and Dihydrobetulinic Acid Derivatives," <i>Bioorg. Med. Chem.</i> 5:2133-2143, Elsevier Science, Ltd. (1997)
AT	1	Kanamoto, T., et al., "Anti-Human Immunodeficiency Virus Activity of YK-FH312 (a Betulinic Acid Derivative), a Novel Compound Blocking Viral Maturation," <i>Antimicrobial Agents Chemother.</i> 45:1225-1230, American Society for Microbiology (April 2001)

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



DEC 30 2003

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AL2	WO 02/16395 A1	02/28/2002	WIPO			Yes No
AM						Yes No
AN						Yes No
AO						Yes No
AP						Yes No

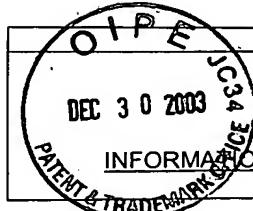
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	2	Kashiwada, Y., et al., "Betulinic Acid and Dihydrobetulinic Acid Derivatives as Potent Anti-HIV Agents," <i>J. Med. Chem.</i> 39:1016-1017, American Chemical Society (1996)
AS	2	Kashiwada, Y., et al., "Anti-AIDS Agents. 30. Anti-HIV Activity of Oleanolic Acid, Pomolic Acid, and Structurally Related Triterpenoids," <i>J. Nat. Prod.</i> 61:1090-1095, American Chemical Society and American Society of Pharmacognosy (1998)
AT	2	Kashiwada, Y., et al., "Synthesis and Anti-HIV Activity of 3-Alkylamido-3-deoxy-betulinic Acid Derivatives," <i>Chem. Pharm. Bull.</i> 48:1387-1390, Pharmaceutical Society of Japan (2000)

EXAMINER

DATE CONSIDERED

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DEC 30 2003

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1900.0400001/JMC/SMW	APPLICATION NO. 10/670,797
FIRST NAMED INVENTOR Allaway et al.	
FILING DATE September 26, 2003	ART UNIT 1648

U.S. PATENT DOCUMENTS

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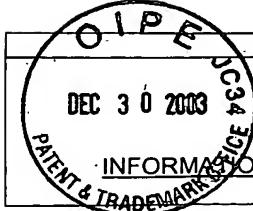
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AL						Yes No
AM						Yes No
AN						Yes No
AO						Yes No
AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	3	Kashiwada, Y., et al., "Anti-AIDS Agents 38. Anti-HIV Activity of 3-O-Acyl Ursolic Acid Derivatives," <i>J. Nat. Prod.</i> 63:1619-1622, American Chemical Society and American Society of Pharmacognosy (2000)
AS	3	Ma, C., et al., "Inhibitory Effects of Ursolic Acid Derivatives from <i>Cynomorium songaricum</i> , and Related Triterpenes on Human Immunodeficiency Viral Protease," <i>Phytother. Res. (Supplement 1, 2nd Intl' Symposium on Natural Drugs)</i> 12:S138-S142, John Wiley & Sons, Ltd. (1998)
AT	3	Ma, C., et al., "Inhibitory Effects of Constituents from <i>Cynomorium songaricum</i> and Related Triterpene Derivatives on HIV-1 Protease," <i>Chem. Pharm. Bull.</i> 47:141-145, Pharmaceutical Society of Japan (1999)

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1900.0400001/JMC/SMWAPPLICATION NO.
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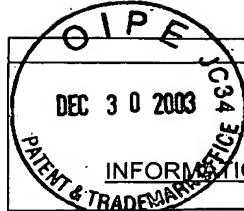
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	4	Neamati, N., "A Small-molecule Antagonist of Virion Assembly," <i>Expert Opin. Investig. Drugs</i> 10:1767-1770, Ashley Publications, Ltd. (September 2001)
AS	4	Pokrovskii, A.G., et al., "Synthesis of Derivatives of Plant Triterpenes and Study of Their Antiviral and Immunostimulating Activity," <i>Khimiya v Interesakh Ustoichivogo Razvitiya</i> 9:485-491, Siberian Branch of the Russian Academy of Sciences (2001)
AT	4	Sun, I-C., et al., "Anti-AIDS Agents. 34. Synthesis and Structure-Activity Relationships of Betulin Derivatives as Anti-HIV Agents," <i>J. Med. Chem.</i> 41:4648-4657, American Chemical Society (1998)

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ATTY. DOCKET NO. 1900.0400001/JMC/SMW	APPLICATION NO. 10/670,797
FIRST NAMED INVENTOR Allaway <i>et al.</i>	
FILING DATE September 26, 2003	ART UNIT 1648

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AL						Yes No
AM						Yes No
AN						Yes No
AO						Yes No
AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	5	Sun, I-C., <i>et al.</i> , "Anti-AIDS Agents. 32. Synthesis and Anti-HIV Activity of Betulin Derivatives," <i>Bioorg. Med. Chem. Lett.</i> 8:1267-1272, Elsevier Science, Ltd. (1998)
AS	5	STNEasy, Accession No. 2001:541179, CAPLUS, ACS on STN (2003), English language abstract for Pokrovskii, A.G., <i>et al.</i> , "Synthesis of Derivatives of Plant Triterpenes and Study of Their Antiviral and Immunostimulating Activity," <i>Khimiya v Interesakh Ustoichivogo Razvitiya</i> 9:485-491 (2001)
AT		

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